

JEFX 02 Execution Overview

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Overview



- USAF experimentation
- Spiral process / gameplan
- Execution leadership & components
- Models / Simulations / Live-fly
- Gaming area & experiment sites
- Execution environment
- Ops perspective on initiatives



What is USAF Experimentation?





WHAT IT IS
DISCOVERY PROCESS that encourages leading edge thought, integrates new and emerging technologies, solve near term deficiencies or provide advanced capabilities to the warfighter

WHAT IT IS NOT.....
NOT an exercise

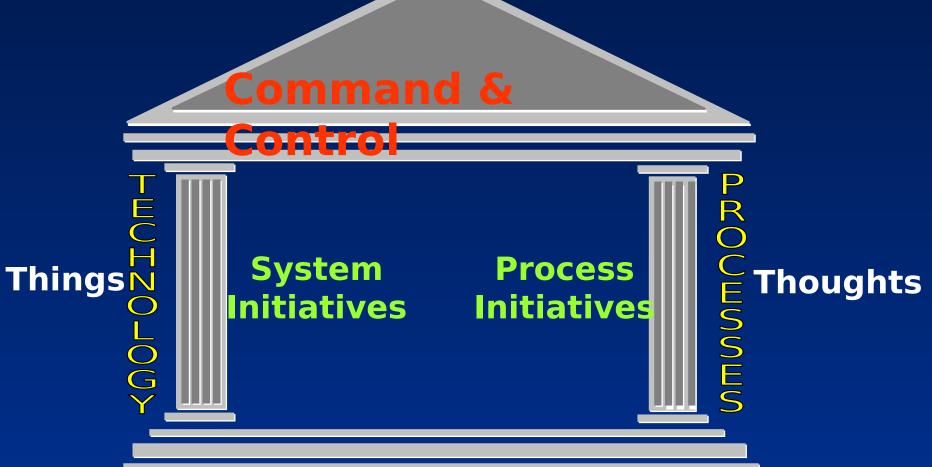
Experiment to Learn—Exercise to Train

Rapidly Develop/Field An Expeditionary
Aerospace Force



Experiment with C2 Pillars-Technology & Processes -





Stimulate system/process initiatives & assess them for operational utility



Experimentation—Process Not Event (Spiral Process)

Basis For Future Investment

Decisions

MainEx

Jul-Aug Assessme

Assessme

June

Early user involvement

Develop new processes

Improves systems

Spiral 2

Spiral 3

Spiral 1

Assessmen March

Assessment January

Promotes

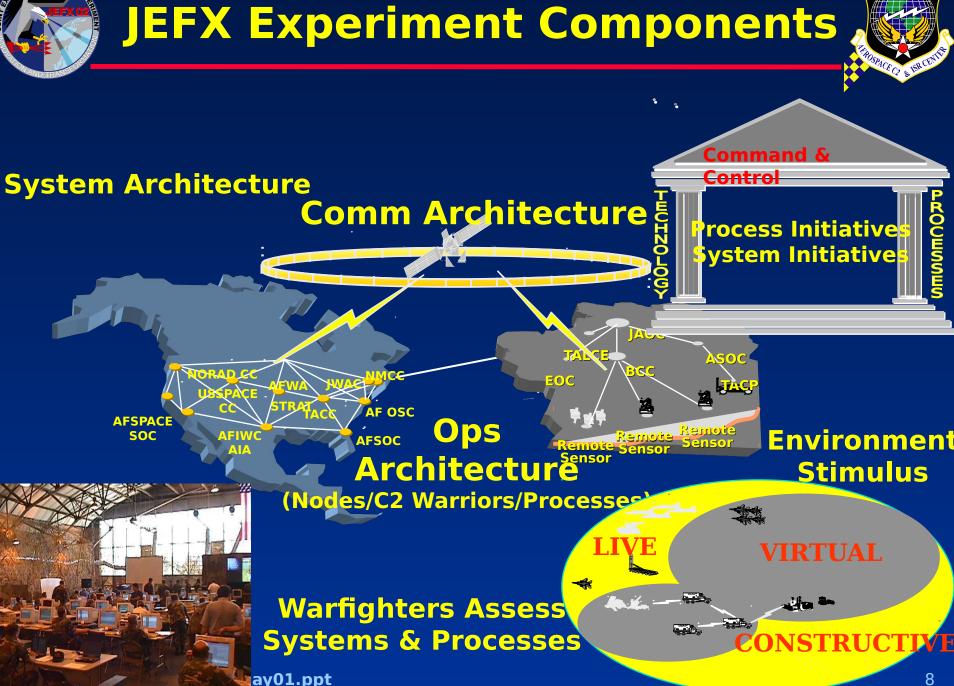
Tear Integrate Warfighters, Processes, Technology, & I

Spi<mark>raF1X(282)anpi8&Feb(492)eplan</mark>

- Location: TBD
- Focus: Initiative Review/Feedback, Team Building
- Spiral 2 (18 29 Mar '02)
 - Location: Nellis
 - Focus: Integrate & Spiral Initiatives,
 Initiative Training, Process
 Workout, M&S Only
- Spiral 3 (3 14 Jun '02)
 - Location: Nellis
 - Focus: Full-up Comm/System/Ops
 Architectures, Spiral Initiatives,
 Initiative Training, Process Workout,
 M&S Only
- MainEx (18 Jul 9 Aug '02)
- Location: Nellis
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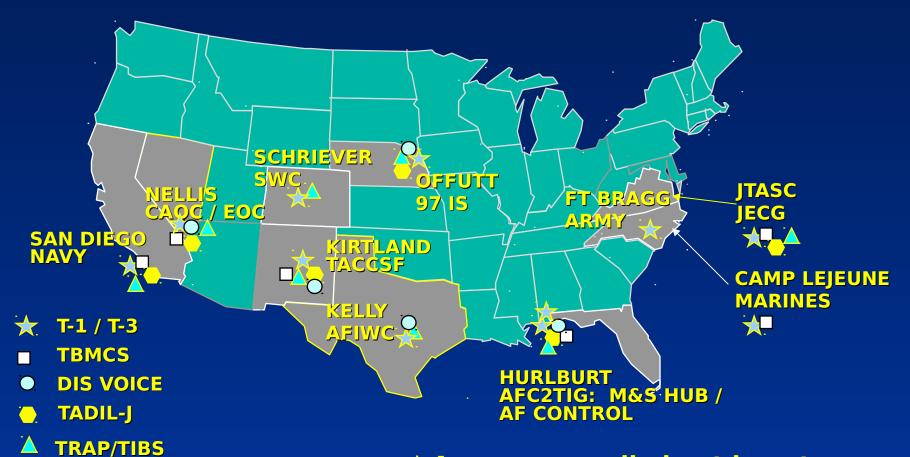






JEFX 02 M&S Distributed Sites





Acronyms spelled out in note pages



MC 02 / JEFX 02 Core M&S Components



- Air: AWSIM, ATI, LOGSIM
- Intel: JQUAD (JCAS, JECEWSI, J-Nets, JOISIM)
- Ground: **EAGLE OneSAF**
- Naval: JSAF
- Marine: JCATS
- Space: MDST, PSM+/Nav, SMAT
- IADS: CATT and DICE
- Virtual: RJMT, VSTARS, AWACS, MCE, ABL,
 Cockpits
- Other: Civil Environ (CE), Cobra Ball, UAV (AFSERS), UMS, EMT
- -Integration: HLA and DIS



roposed JEFX 02 Live-Fly Player

<u>AEW</u>

- * 8xA-10
- **◆ 10xF-15E**
- 6xF-15C
- 10xF-16CJ
- 8xF-16CG
- + 2xB-1
- * 1xHH-60
- **→ 1xF117**

Others

• 6xKC-135

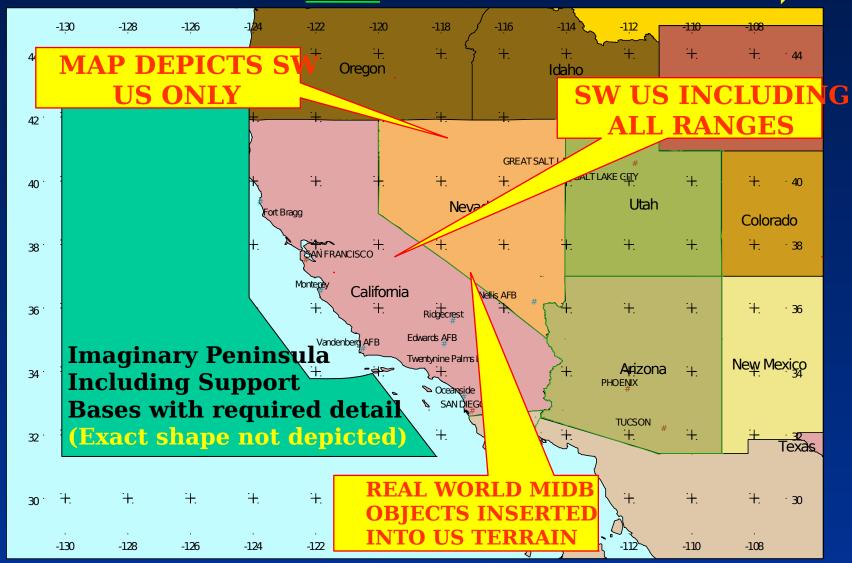
AOC/ISR/STRAT

- **◆ 2xE-3**
- 1xE-8
- 1xRC-135
- + 1xU-2
- * 2xB-2
- **◆ 1xB-52**
- 1xGH
- 2xPredator
- Total 63
- * Acronyms spelled out in note pages



MC 02 / JEFX 02 Scenario Playbox







MC 02 / JEFX 02 Primary **Experiment Sites**



- JECG
- JFCOM JFHQ
- JTF HQ
- Army
- Army Live
- Navy
- Marines
- Marine Live
- CAOC / EOC
- AFSPACE AOC
- TACC
- AIA
- AF Live-Fly Range Nellis Range, NV
- AF Control / Response AFC2TIG, Hurlburt File

JTASC, Suffolk, VA JTASC, Suffolk, VA

Afloat, West Coast

Ft Bragg, NC NTC, CA

San Diego, CA

Camp LeJeune, NC

George AFB, CA

Nellis AFB, NV

Vandenberg AFB, CA

Scott AFB, IL

Kelly AFB, TX

^{*} Acronyms spelled out in note pages



- Cenario X 02 Execution
 Modified real-world scenario
 Small-scale contingency with limited access
- GSTF escalating to 2 AEFs
- Initially 200-300 sorties/day escalate to
- ~1000
- CAOC
 - Single shift, expeditionary CAOC at Nellis
 - Alliance integrated (open floor + US) enclave?)
 - AFFOR reach-back TBD
- MC 02 24-hr ops for 8 days during **MainEx**
 - CAOC response cell?
- JTF will issue ETO (effects tasking order)
 - Currently text -- similar to CINC guidance/intent



Ops Perspectives on Initiatives incorporate all services weapons & collateral damage TX 02 Focus Areas (1 of 2)

- Implement TADIL-J messages (land tracks, pairing, etc) to maximum extent possible/practical
- Merge digital target folders with dynamic target list
- Desire tools that can be tailored by operator
- Initiative documentation critical to system integration

C2 of ISR

- Integrated/combined sensor tools (ground, air, space)
- Need faster IPB and more accurate PBA
- Optimized surveillance plan based on PBA
- Optimized reccercianymaspialebyodeterminaes

Ops Perspectives on Initiatives Reduced Footprint Reduced Footprint

- Tools to automate/enable processes crucial
- Integrated, interoperable tools are key
- Tools should work across functional areas
- Web-enabled tools compatible with TBMCS 1.2
- Tools on laptops to maximum extent
- Need data correlation/fusion to reduce manning/equip
- Alliance Integration
 - Initiatives must operate in alliance environment
 - Reduce requirement for man-in-the-loop data release
 - Must have alliance releasable cop out in note pages

Questions?

